

PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 4

Complete if Known

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| Application Number | 10/692,169 |
| Filing Date | 10/23/2003 |
| First Named Inventor | William Kress Bodin |
| Art Unit | 3661* |
| Examiner Name | Unknown |
| Attorney Docket Number | AUS920030676US1 |

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| CAN | | US- 5,890,441 | 04-06-1999 | Swinson et al. | |
| CAN | | US- 6,056,237 | 05-02-2000 | Woodland | |
| CAN | | US- 6,130,705 | 10-10-2000 | Lareau et al. | |
| CAN | | US- 6,219,004 B1 | 04-17-2001 | Johnson | |
| CAN | | US- 6,377,875 B1 | 04-23-2002 | Schwaerzler | |
| CAN | | US- 6,498,968 B1 | 12-24-2002 | Bush | |
| CAN | | US- 2001/0035995 A1 | 11-01-2001 | Ruggiero | |
| CAN | | US- 5,581,250 | 12-03-1996 | Khvilivitzky | |
| CAN | | US- 5,240,207 | 08-31-1993 | Eiband et al. | |
| CAN | | US- 5,552,983 | 09-03-1996 | Thornbert et al. | |
| CAN | | US- 5,716,032 | 02-10-1998 | McIngvale | |
| | | US- | | | |
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FOREIGN PATENT DOCUMENTS

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Examiner
SignatureC. Nguyen
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Date

Considered

6/12/06

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| | | Examiner Name | Unknown |
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| NON PATENT LITERATURE DOCUMENTS | | | |
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| CHAN | | SUTCLIFFE, et al.; Decentralised Data Fusion Applied to a Network of Unmanned Aerial Vehicles; Inspec AN 7289965; Feb. 2002; pp 71-76; Piscataway, NJ; USA | |
| CHAN | | JOHNSON, et al; Improving Geolocation and Spatial Accuracies with the Modular Integrated Avionics Group; Inspec AN 5467118; pp 88-97; April 1996; SPIE-Int. Soc. Opt.; England | |
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| CHAN | | RQ-1 Predator Unmanned Aerial Vehicle; May 2002; pp 1-3; U.S. Air Force Fact Sheet; USA | |
| CHAN | | GORMLEY, et al; Controlling Unmanned Air Vehicles: New Challenges; March 2003; pp 1-21; Commissioned by the Non-Proliferation Education Center; USA | |
| CHAN | | YOUNG; Unmanned Aerial Vehicles Web Site; pp 1-2; NASA GSFC/Wallops Flight Facility, Wallops Island, VA; USA | |
| | | Unmanned Aircraft.com Website, http://www.unmannedaircraft.com/ | |
| CHAN | | STELLMAN, et al.; War Horse; April 2001; Inspec. AN 7295892; Vol 4379; pp 339-346; SPIE-Int. Soc. Opt.; USA | |
| CHAN | | DITTRICH, et al.; 21st Digital Avionics Systems Conference; October 2002; Inspec. AN 7614545; Vol 2; IEEE; Piscataway, NJ; USA | |

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| CHAN | | DITTRICH; Design and Integration of an Unmanned Aerial Vehicle Navigation System; Thesis; May 2002; pp i-52; Georgia Institute of Technology; USA | |
| | | Figure 8: Data link module with removed side panel; pp 18-37; USA | |
| | | Figure 17: Simulated GPS malfunction, on the ground, 15 sec; 38-52; USA | |
| CHAN | | SOMERS; Unmanned Aerial Vehicle - Demonstration of Autonomous Flight, 09-9822; 1999 IR&D Home; pp 1-4; USA | |
| CHAN | | BROWN, et al.; Airborne Reconnaissance XXIII; July 1999; pp 2-8; Vol. 3751; SPIE-Int. Soc. Opt; England | |
| CHAN | | NETTLETON, et al.; Multiple Platform Localization and Map Building; Nov 2000; pp 337-347; Inspec AN 6979413; SPEI-Int. Soc. Opt. Eng; US | |
| CHAN | | SCHUMACHER et al.; Adaptive Control of UAVs in Close-coupled Formation Flight; 2000; pp 849-853; Insp An 6770904; vol 6 Danvers, MA; US | |
| CHAN | | SINGH et al; Adaptive Feedback Linearizing Nonlinear Close Formation Control of UAVs; 2000; pp 854-858; Inspec AN 6770905; vol 2; Danvers, Ma; US | |
| CHAN | | 21st Digital Avionics Systems Conference; 2002; Inspec AN 7614402; vol 1; IEEE; Piscataway, NJ; US | |
| CHAN | | HALLBERG, et al.; Development of a Flight Test Systems for Unmanned Air Vehicles; Feb 1999; pp 55-65; IEEE vol. 19; Inspec AN 6176739; Monterey, CA; US | |

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| | | Examiner Name | Unknown |
| Sheet 4 | of 4 | Attorney Docket Number | AUS92003676US1 |

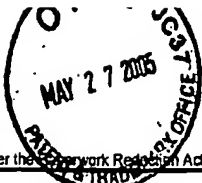
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| CHN | | SHILLER, et al.; Mission Adaptable Autonomous Vehicles; 1991; pp 143-150; Inspec AN 4208922; Newton, MA; US | |
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| Sheet | 1 | of | 1 |
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NON PATENT LITERATURE DOCUMENTS

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| Examiner Name | Unknown CUONG NGUYEN |
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Attorney Docket Number AUS92003007003 **PRIMARY EXAMINER**

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS | | | | | | |
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**Examiner
Signature**

CUONG NGUYEN
PRIMARY EXAMINER

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| Application Number | 10/692,169 |
| Filing Date | 10/23/2003 |
| First Named Inventor | William Kress Smith |
| Art Unit | 3661 |
| Examiner Name | Unknown CUONG NGUYEN |
| Attorney Docket Number | AUS920030676US1 PRIMARY EXAMINER |

Sheet 3 of 3

NON-PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T |
|--------------------|-----------------------|--|---|
| | | DITTRICH; Design and Integration of an Unmanned Aerial Vehicle Navigation System; Thesis; May 2002; pp 1-52; Georgia Institute of Technology; USA | |
| | | Figure 8: Data link module with removed side panel; pp 18-37; USA | |
| | | Figure 17: Simulated GPS malfunction, on the ground, 15 sec; 38-52; USA | |
| CAN | | SOMERS; Unmanned Aerial Vehicle - Demonstration of Autonomous Flight, 09-9822; 1999 IR&D Home; pp 1-4; USA | |
| CAN | | FISHELL; Airpome Reconnaissance XXIII; July 1999; pp 2-8; Vol. 3751; SPIE-Int. Soc. Opt; England | |
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| Examiner Signature | <i>CUONG NGUYEN</i> CUONG NGUYEN EXAMINER | Date Considered | 6/12/06 |
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|--|---|---|---|
| Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | Complete if Known Application Number 10/692,169 Filing Date 10/23/2003 First Named Inventor William Kress Bodin Art Unit 3661 Examiner Name Unknown Attorney Docket Number AUSS20030878US1 | |
| Sheet | 1 | of | 4 |

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| Examiner Signature | <div style="text-align: center;">PRIMARY EXAMINER</div>  | Date Considered | 6/12/06 |
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Japanese patent documents, the indication of the year of the reign of the Emperor must precede the year of publication. If the document contains the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant may provide a translation thereof to facilitate examination. Translation is attached.

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| Substitute for form 1449/PTO | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | Application Number | 10/692,169 |
| | | Filing Date | 10/22/2003 |
| | | First Named Inventor | William Kress Bodin |
| | | Art Unit | 3681 |
| | | Examiner Name | Unknown |
| | | Attorney Docket Number | AUS920030676US1 |
| Sheet 2 | of 4 | | |

| NON PATENT LITERATURE DOCUMENTS | | |
|---------------------------------|----------|--|
| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), the item (book, magazine, journal, serial, number(s), publisher, city and/or country where published. |
| | | Unmanned Data Fusion Applied to a Network of Unmanned Aerial Vehicles; Inspec AN 7269965; Feb. 2002; pp 71-76; Piscataway, NJ; USA |
| | | JOHNSON, et al; Improving Geolocation and Spatial Awareness with the Non-Proliferation Education Center; Avionics Group; Inspec AN 5487118; pp 88-97; April 1996; SPIE-Int. Soc. Opt.; England |
| | | GUNAPALA, et al; QWIP Technology for Both Military and Civilian Applications; Inspec AN 7255522; April 2001; pp 498-505; SPIE-Int. Soc. Opt.; England |
| | | SPENNY, et al; Closely Supervised Control of a Target-Steered UAV; Inspec AN 6852724; Sept 1999; pp 179-190; SPIE-Int. Soc. Opt.; England |
| | | RQ-1 Predator Unmanned Aerial Vehicle; May 2002; pp 1-3; U.S. Air Force Fact Sheet; USA |
| | | GORMLEY, et al; Controlling Unmanned Air Vehicles: New Challenges; March 2003; pp 1-21; Commissioned by the Non-Proliferation Education Center; USA |
| | | YOUNG; Unmanned Aerial Vehicles Web Site; pp 1-2; NASA GSFC/Wallops Flight Facility, Wallops Island, VA; USA |
| | | Airborne Autonomous Systems...where information technology and aviation meet; Unmannedaircraft.com Website; July 22, 2003; pp 1-10; USA |
| | | STELLMAN, et al; War Horse; April 2001; Inspec. AN 7295892; Vol 4379; pp 339-346; SPIE-Int. Soc. Opt.; USA |
| | | DITTRICH, et al.; 21st Digital Avionics Systems Conference; October 2002; Inspec. AN 7614545; Vol 2; IEEE; Piscataway, NJ; USA |

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|--------------------|---|-----------------|---------|
| Examiner Signature | QUONG NGUYEN PRIMARY EXAMINER | Date Considered | 6/12/06 |
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Sheet 3

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| Application Number | 10/692,169 |
| Filing Date | 10/23/2003 |
| First Named Inventor | |
| Art Unit | 3881 |
| Examiner Name | Unknown |
| Attorney Docket Number | AUS92003087BUS1 |

REFERENCES TO OTHER DOCUMENTS

| Initials* | No.† | REFERENCES TO OTHER DOCUMENTS (including, but not limited to, U.S. PATENTS, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and state) | T2 |
|-----------|------|---|----|
| | | NETTLETON, Design and Integration of an Unmanned Aerial Vehicle Navigation System, May 2002, pp 1-52; Georgia Institute of Technology; USA | |
| | | Figure 8: Data link module with removed side panel; pp 18-37; USA | |
| | | Figure 17: Simulated GPS malfunction, on the ground, 15 sec; 38-52; USA | |
| | | SOMERS, Unmanned Aerial Vehicle - Demonstration of Autonomous Flight, 09-9822; 1999 IR&D Home; pp 1-4; USA | |
| | | BROWN, et al., Airborne Reconnaissance XXIII; July 1999; pp 2-8; Vol. 3751; SPIE-Int. Soc. Opt. Eng; England | |
| | | NETTLETON, et al., Multiple Platform Localization and Map Building; Nov 2000; pp 337-347; Inspec AN 6979413; SPIE-Int. Soc. Opt. Eng; US | |
| | | SCHUMACHER et al., Adaptive Control of UAVs in Close-coupled Formation Flight; 2000; pp 849-853; Inspec An 6770904; vol 8 Danvers, MA; US | |
| | | SCHUMACHER et al., Adaptive Feedback Linearizing Nonlinear Close Formation Control of UAVs; 2000; pp 854-858; Inspec AN 6770905; vol 2; Danvers, MA; US | |
| | | 21st Digital Avionics Systems Conference; 2002; Inspec AN 7614402; vol 1; IEEE; Piscataway, NJ; US | |
| | | HALLBERG, et al., Development of a Flight Test Systems for Unmanned Air Vehicles; Feb 1999; pp 55-65; IEEE vol. 19; Inspec AN 6176739; Monterey, CA; US | |

GUONG NGUYEN

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| Examiner Signature | PRIMARY EXAMINER | Date Considered | 6/12/05 |
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| | | Application Number | 10/692,169 |
| | | Filing Date | 10/23/2003 |
| | | First Named Inventor | William Kress Bodin |
| | | Art Unit | 3681 |
| | | Examiner Name | Unknown |
| | | Attorney Docket Number | AUS920030676US1 |

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| Examiner Signature | <i>Cusna</i> PRIMARY EXAMINER | Date Considered | 5/12/06 |
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